

FATALITIES, INJURIES AND NEAR HITS ON THE WESTERN AUSTRALIAN HEAVY RAIL NETWORK 2001-2023

MARCH 2024

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INTRODUCTION

This report has been prepared by the TrackSAFE Foundation to increase knowledge and inform prevention activities to reduce fatalities, injuries and near hits on the Australian heavy rail network.

The TrackSAFE Foundation, established by the Australasian Railway Association and UGL in 2012, is Australia's only harm prevention charity focused on reducing deaths, injuries and near hits on the rail network. TrackSAFE also works to improve the wellbeing of rail employees.

Every life lost and injury on the rail network is a tragedy and the impacts on family, friends, communities, rail and recovery staff and witnesses can be profound. These incidents together with thousands of near hits each year can cause trauma and work-related stress and illness to rail and recovery staff.

The <u>Rail Industry Trauma Management Framework</u> developed by TrackSAFE provides guidance on best practice trauma management and should form the foundation of internal policies and procedures in rail organisations. Rail RUOK? Day is celebrated across the rail industry every April. Rail RUOK? activities throughout the year build skills and confidence to ask a workmate "R U OK?" and know what to say and do if they say no. TrackSAFE also offers a range of webinars and other activities to support the wellbeing and resilience of the rail workforce.

Working closely with rail organisations, the TrackSAFE Foundation is actively engaged in a wide range of rail safety activities including public awareness campaigns and facilitation of the annual Rail Safety Week. To prevent suicides on the rail network, it advocates for fencing and other barriers to reduce access to the rail corridor, encourages individuals to seek help before and at the time of crisis and launched <u>Suicide Awareness Training</u> for rail staff in September 2023. It also promotes the responsible reporting of suspected and attempted suicides by the media. In partnership with Lifeline Australia, TrackSAFE implements public awareness campaigns to encourage individuals to contact Lifeline on 13 11 14 whether they are in crisis or just needing someone to talk to. The <u>Pause.Call.Be Heard</u> signage is used widely in the rail corridor as well as being delivered digitally in bursts to those in and near rail locations.

Every incident on the network can also cause disruption and delays to hundreds of services each year impacting customers and economic efficiency. The average annual economic burden of railway safety incidents in Australia during the period 2007-2015 was estimated to be approximately \$360.1 million^{1.}

More information on TrackSAFE's activities is available via its <u>website</u>. Copies of reports commissioned by TrackSAFE and referenced in this report are available in TrackSAFE's <u>Information Hub</u>.

Some people may find the content of this report confronting or distressing. The information included here places an emphasis on data, and as such, can appear to depersonalise the pain and loss behind the statistics. If this material raises concerns for you contact Lifeline on 13 11 14.



NOTES ON THE DATA IN THIS REPORT

- Fatality, injury and near miss data in this report has been sourced from either the National Coronial Information System (NCIS) or the Office of the National Rail Safety Regulator (ONRSR).
- Where data is described as 'suicide', the data has been sourced from a report commissioned by the TrackSAFE Foundation from the NCIS for the period 2000-2017. Information about the limitations of this data can be provided by TrackSAFE.
- Where a fatality is described as 'suspected suicide', the data has been obtained by ONRSR and includes incidents notified to the Regulator by rail operators as required by the Rail Safety National Law National Regulations. These incidents are notified to ONRSR shortly after the incident. The Coroner may make a different determination about the cause of death.
- The number of suicides in 2016 & 2017 (76 & 82 respectively) as determined by Coroners' and included in the NCIS report is lower than the suspected suicides reported in the ONRSR database (77 & 94 respectively).
- There is some variability in the time period used for the analysis included in this report due to the form and availability of data.
- Two amendments were made to the original ONRSR occurrence database by TrackSAFE. A 2017 Victorian tram incident that resulted in a serious injury is excluded and suspected suicide fatality in NSW in 2016 was misclassified as a minor injury.
- On 1/7/2022 the definition of serious injury has changed and resulted in a slight decrease of serious injuries compared to previous years. On the same date the definition of Near Miss/Near Hit has changed and now only requires incidents to be reported where a collision has only been narrowly avoided by chance and there was a high chance of collision if circumstances were slightly different. This resulted in a decrease in incidents compared to previous years.

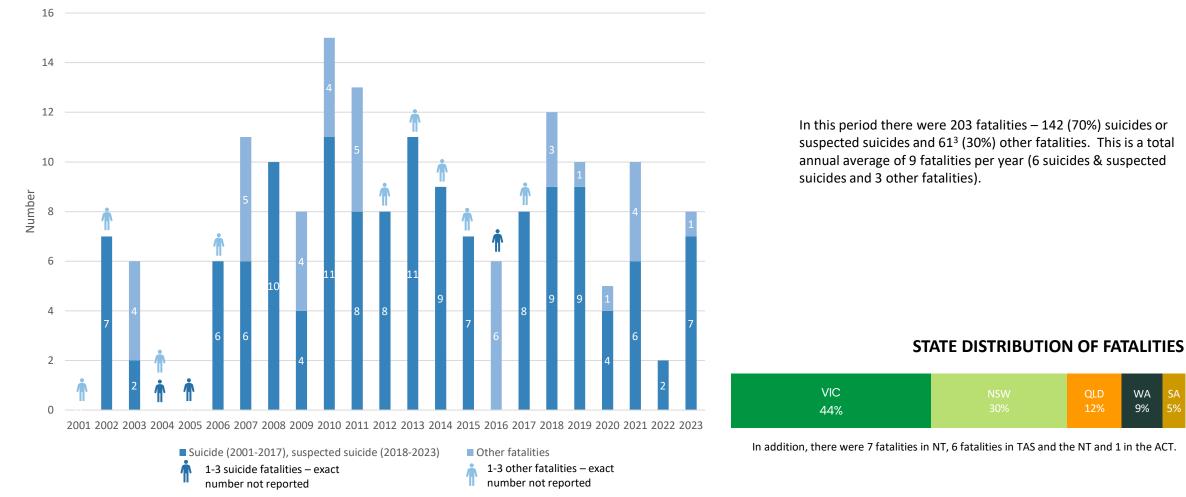


SUMMARY

- Between 2001-2023 there were 2,330 fatalities, 1,685 suicides or suspected suicides and 645¹ other fatalities on the Australian heavy rail network. This is a total annual average of 101 fatalities per year (73 suicides & suspected suicides and 28 other fatalities), or almost 2 each week. Most occur in Victoria (44%) followed by New South Wales (30%), Queensland (12%), Western Australia (9%) and South Australia (5%) and 7 in the Northern Territory and Tasmania and 2 in the Australian Capital Territory¹.
- Between 2001-2023 there were 203 fatalities 142 suicides or suspected suicides and 61¹ other fatalities on the Western Australian heavy rail network. This is a total annual average of 9 fatalities per year (6 suicides & suspected suicides and 3 other fatalities).
- Since 2016 rail operators have been required to report to ONRSR occurrences be they fatalities, injuries or near misses in accordance with the National Rail Safety National Law. Between 2016-2023 in Western Australia there were:
 - a total of 178 fatalities, injuries and attempted suicides with no injuries reported on ONRSR, an average of 22 per year.
 - 62 fatalities including 51 (82%) suspected suicides.
 - 85 attempted suicides. There are likely to have been many more attempted suicides and threats of self-harm that did not meet the regulatory reporting threshold.
 - 5 fatalities and 12 injuries to trespassers. In addition, there were 288 near hits with trespassers, an average of 36 per year. There are likely to have been many more near hits that did not meeting the regulatory reporting threshold.
 - 5 fatalities and 17 injuries as a result of collisions with a road vehicles and pedestrians at a level crossing. In addition, there were 447 near hits with a road vehicle and 479 near hits with a pedestrian at level crossings, an average of 116 per year. There are likely to have been many more near misses that did not meeting the regulatory reporting threshold.
 - 1 fatality and 2 injuries as a result of other struck by train incidents.



FATALITIES ON THE WESTERN AUSTRALIAN HEAVY RAIL NETWORK 2001-2023^{1,2}



- National Coronial Information System, 2020 Intentional Self-harm deaths at Australian railway locations 2000–2017, (DR20-31 and DR20-31A), November, Melbourne Australia (for 2001-2017 suicide data), National Coronial Information System, 2021, Non-intentional self-harm deaths at Australian railway locations 2000-2017 (DR20-43), February, Melbourne Australia (for 2001-2017 other fatality data).
- 2. Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023 (for 2018-2023 data). The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See here for information about notifiable occurrences to ONRSR.
- 3. This includes <4 other fatalities that occurred in 2000, the exact number is not reported by NCIS.

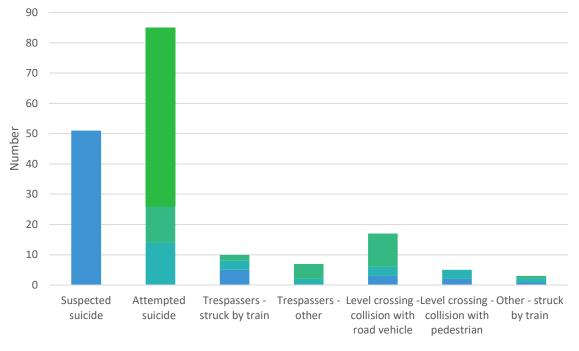
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FATALITIES & INJURIES BY CAUSE ON THE WESTERN AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

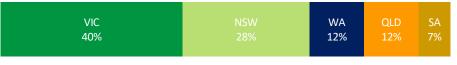
In this period there were 178 fatalities, injuries and attempted suicides with no injury reported to the Office of the National Rail Safety Regulator, an average of 22 per year. 82% of all fatalities were suspected suicides.



■ Fatality ■ Serious injury ■ Minor Injury ■ No injury

	Fatality	Serious injury	Minor Injury	No injury	Total
Suspected suicide	51				51
Attempted suicide		14	12	59	85
Trespassers - struck by train	5	3	2		10
Trespassers - other	0	2	5		7
Level Xing - collision with road vehicle	3	3	11		17
Level Xing - collision with pedestrian	2	3	0		5
Other – struck by train	1	1	1		3
Total	62	26	31	59	178

STATE DISTRIBUTION OF OCCURENCES



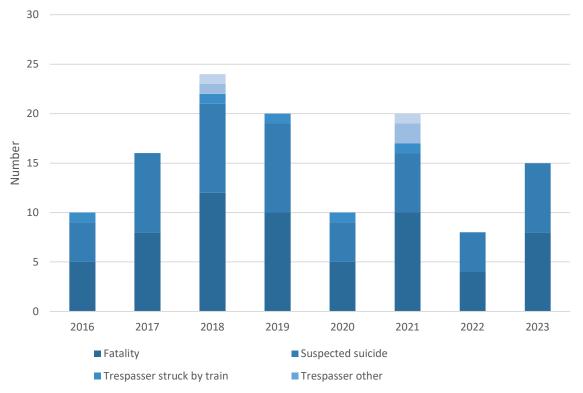
There were 6 incidents in NT, 3 in TAS and 0 in ACT



1. Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See here for information about notifiable occurrences. On 1/7/2022 the definition of serious injury changed potentially changing reported serious injuries compared to previous years.

FATALITIES ON THE WESTERN AUSTRALIAN HEAVY RAIL NETWORK BY YEAR & CAUSE 2016-2023¹

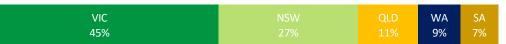
In this period there were 62 fatalities reported to ONRSR, an average of 8 per year.



Level Xing - collision with road vehicle Level Xing - collision with pedestrian

	-	Trespasser		-	-		TOTAL
	suicide	struck by train	other	- collision with road vehicle	- collision with pedestrian	struck by train	
2016	4	1	0	0	0	0	5
2017	8	0	0	0	0	0	8
2018	9	1	0	1	1	0	12
2019	9	1	0	0	0	0	10
2020	4	1	0	0	0	0	5
2021	6	1	0	2	1	0	10
2022	4	0	0	0	0	0	4
2023	7	0	0	0	0	1	8
TOTAL	51	5	0	3	2	1	62

STATE DISTRIBUTION OF FATALITIES²



In addition, there were 2 fatalities in TAS. There were no fatalities in NT & ACT



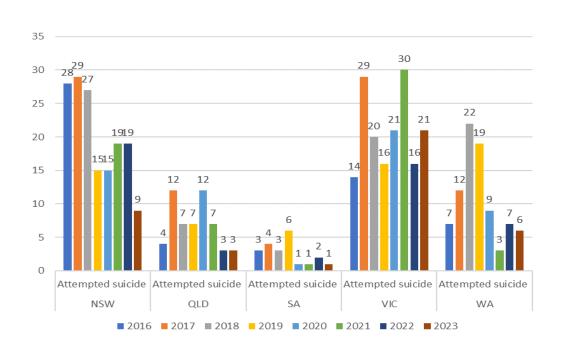
1. Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See here for information about notifiable occurrences.

2. Equals 99% due to rounding

SUICIDES¹, SUSPECTED & ATTEMPTED SUICIDES^{2,3} ON THE AUSTRALIAN HEAVY RAIL NETWORK BY STATE 2016-2023

Suspected suicide Suspected suicide Suspected suicide Suspected suicide QLD VIC NSW SA WA ■ 2016 ■ 2017 ■ 2018 ■ 2019 ■ 2020 ■ 2021 ■ 2022 ■ 2023

SUSPECTED SUICIDE



ATTEMPTED SUICIDE

1. National Coronial Information System, 2020 Intentional Self-harm deaths at Australian railway locations 2000–2017, (DR20-31 and DR20-31A), November, Melbourne Australia (for 2016-2017 data).

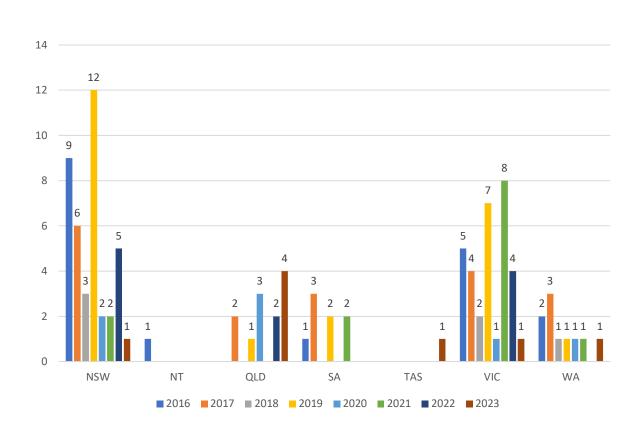
2. Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023 (for 2018-2023 data). The requirements for

- operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See here for information about notifiable occurrences to ONRSR.
- 3. NCIS report less suicides in 2016 & 2017 compared to ONRSR suspected suicides (76 and 82 reported by NCIS for 2016 and 2017 respectively compared to 77 and 94 suspected suicides reported by ONRSR).



TRESPASSER STRUCK BY TRAIN ON THE AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

In this period there were 104 trespassers struck by a train resulting in 55 fatalities, 26 serious injuries and 23 minor injuries.



	NSW	NT	QLD	SA	VIC	C WA	TOTAL
2016	9	1	0	1	5	2	18
2017	6	0	2	3	4	3	18
2018	3	0	0	0	2	1	6
2019	12	0	1	2	7	1	23
2020	2	0	3	0	1	1	7
2021	2	0	0	2	8	1	13
2022	5	0	2	0	4	0	11
2023	1	0	4	0	1	1	8
TOTAL	40	1	12	8	32	10	104
				Ther	e were	no incident	ts in the ACT
	-		Fatality	Serio	ous	Minor	TOTAL
				inju	iry	injury	
	2	016	8	6		4	18
	2	017	8	3		7	18
		018	3	1		2	6
		019	13	7		3	23
		020	2	3		2	7
	2	021	7	3		3	13

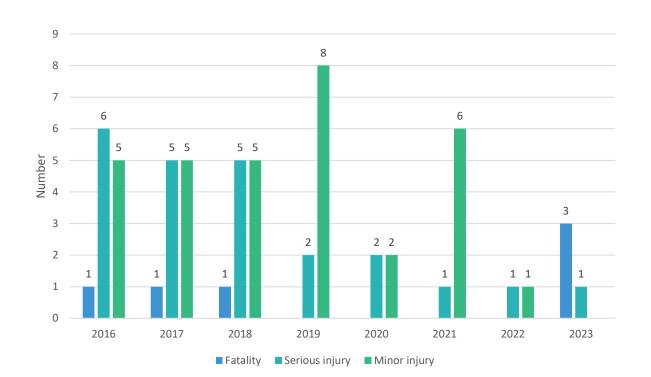
TOTAL

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1. Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See here for information about notifiable occurrences. On 1/7/2022 the definition of serious injury changed potentially changing reported serious injuries compared to previous years.

TRESPASSER - OTHER ON THE AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

In this period there were 59 other trespasser incidents resulting in 4 fatalities, 23 serious injuries and 32 minor injuries.



	NSW	NT	QLD	SA	VIC	WA	TOTAL
2016	7	1	1	1	1	1	12
2017	2	0	3	2	4	0	11
2018	3	0	5	0	0	3	11
2019	4	0	1	0	3	2	10
2020	0	0	4	0	0	0	4
2021	5	0	0	1	0	1	7
2022	0	0	1	0	1	0	2
2023	1	0	1	0	0	0	4
TOTAL	22	1	16	4	9	7	59

There were no incidents in the ACT or TAS.

	Fatality	Serious	Minor	TOTAL
		injury	injury	
2016	1	6	5	12
2017	1	5	5	11
2018	1	5	5	11
2019	0	2	8	10
2020	0	2	2	4
2021	0	1	6	7
2022	0	1	1	2
2023	1	1	0	4
TOTAL	4	23	32	59

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 Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See <u>here</u> for information about notifiable occurrences. On 1/7/2022 the definition of serious injury changed potentially changing reported serious injuries compared to previous years.

TOTAL TRESPASS OCCURENCES ON THE WESTERN AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

TRESPASSER STRUCK BY TRAIN

2

2017

2018

2019

■ Fatality ■ Serious injury ■ Minor injury

2020

2021

2022

3

2

Ο

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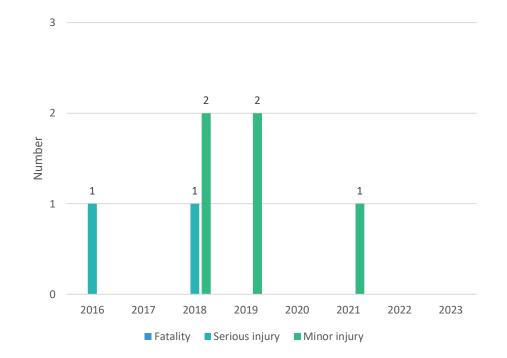
2016

Number

In this period there were 10 trespassers struck by a train resulting in 5 fatalities, 3 serious injuries and 2 minor injuries. There were no incidents reported in 2022.



In this period there were 7 other trespasser incidents resulting 2 serious injuries and 5 minor injuries. There were no incidents reported in 2017, 2020, 2022 or 2023.





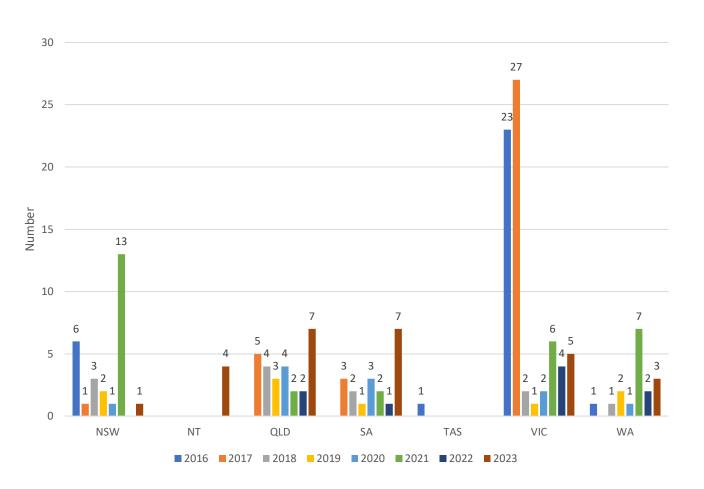
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2023



FATALITIES & INJURIES BECAUSE OF COLLISIONS WITH A ROAD VEHICLE AT LEVEL CROSSINGS ON THE AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

In this period there were 27 fatalities and 138 injuries because of road vehicle collisions at a level crossing.



	NSW	NT	QLD	SA	TAS	VIC	WA	TOTAL
2016	6	0	0	0	1	23	1	31
2017	1	0	5	3	0	27	0	36
2018	3	0	4	2	0	2	1	12
2019	2	0	3	1	0	1	2	9
2020	1	0	4	3	0	2	1	11
2021	13	0	2	2	0	6	7	30
2022	0	0	2	1	0	4	2	9
2023	1	4	7	7	0	5	3	27
TOTAL	27	4	27	19	1	70	17	165
					There we	ere no inc	idents in	the ACT.

	Fatality	Serious	Minor	TOTAL
		injury	injury	
2016	3	3	25	31
2017	3	3	30	36
2018	3	4	5	12
2019	2	1	6	9
2020	2	2	7	11
2021	5	7	18	30
2022	2	2	5	9
2023	7	6	14	27
TOTAL	27	28	110	165

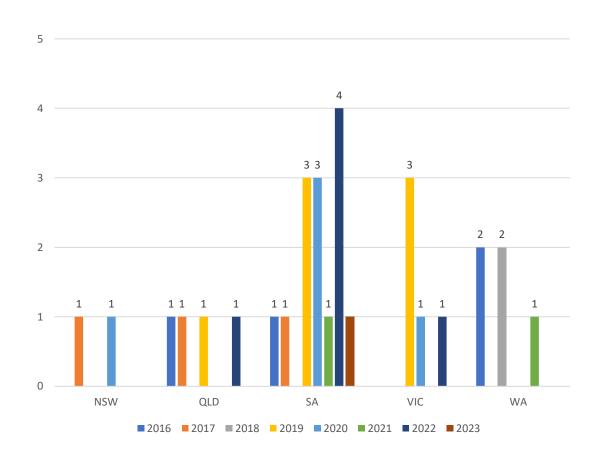
1. Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See here for information about notifiable occurrences. On 1/7/2022 the definition of serious injury changed potentially reducing reported serious injuries compared to previous years.

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FATALITIES & INJURIES BECAUSE OF COLLISIONS WITH A PEDESTRIAN AT LEVEL CROSSINGS ON THE AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

In this period there were 13 fatalities and 17 injuries because of collisions with a pedestrian at a level crossing.



	NSW	QLD	SA	VIC	WA	TOTAL
2016	0	1	1	0	2	4
2017	1	1	1	0	0	3
2018	0	0	0	0	2	2
2019	0	1	3	2	0	7
2020	1	0	3	1	0	5
2021	0	0	1	0	1	2
2022	0	1	4	1	0	6
2023	0	0	1	0	0	1
TOTAL	2	4	14	5	5	30



	Fatality	Serious	Minor	TOTAL
		injury	injury	
2016	0	3	1	4
2017	1	1	1	3
2018	1	1	0	2
2019	3	2	2	7
2020	3	2	0	5
2021	1	1	0	2
2022	4	2	0	6
2023	0	1	0	1
TOTAL	13	13	4	30

 Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See <u>here</u> for information about notifiable occurrences. On 1/7/2022 the definition of serious injury changed potentially reducing reported serious injuries compared to previous years.



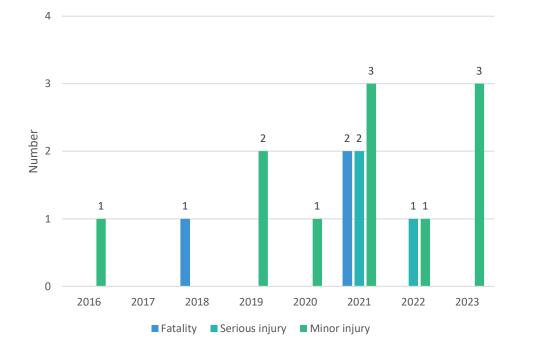
TOTAL LEVEL CROSSING OCCURENCES ON THE WESTERN AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

COLLISION WITH A ROAD VEHICLE

In this period there were 3 fatalities, 3 serious injuries and 11 minor injuries because of road vehicle collisions at a level crossing. There were no incidents in 2017.

COLLISION WITH A PEDESTRIAN

In this period there were 2 fatalities (2018 and 2021) and 3 serious injuries (2 in 2016 and 1 in 2018) because of collisions with a pedestrian at a level crossing.



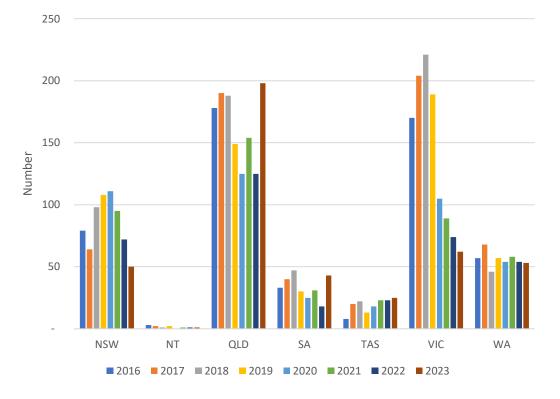
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NEAR HITS AT LEVEL CROSSINGS ON THE AUSTRALIAN HEAVY RAIL NETWORK 2016-2023 $^{\rm 1}$

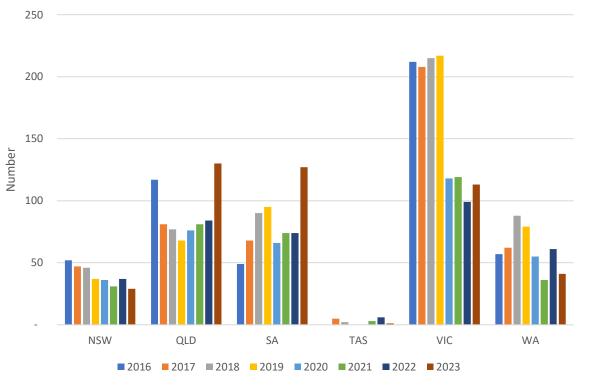
NEAR HITS WITH ROAD VEHICLE

In this period there were 3,975 near misses with a road vehicle at a level crossing, an average of 497 per year. There were no incidents in the ACT.



NEAR HITS WITH PEDESTRIAN

In this period there were 3,470 near misses with a pedestrian at a level crossing, an average of 434 per year. There were no incidents in the ACT and 1 incident in the NT in 2022.



Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See here for information about notifiable occurrences. On 1/7/2022 the definition of Near Miss/Near Hit has changed and now only requires incidents to be reported where a collision has only been narrowly avoided by chance and there was a high chance of collision if circumstances were slightly different. This may result in a decrease of incidents compared to previous years.



NEAR HITS AT LEVEL CROSSINGS ON THE AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

NEAR HITS WITH ROAD VEHICLE

In this period there were 3,975 near hits with a road vehicle at a level crossing, an average of 497 per year. There were no incidents in the ACT.

	NSW	NT	QLD	SA	TAS	VIC	WA
2016	79	3	178	33	8	170	57
2017	64	2	190	40	20	204	68
2018	98	1	188	47	22	221	46
2019	108	2	149	30	13	189	57
2020	111	-	125	25	18	105	54
2021	95	1	154	31	23	89	58
2022	72	1	125	18	23	74	54
2023	50	1	198	43	25	62	53
TOTAL	677	11	1,307	267	152	1,114	447
AVERAGE	85	1	163	33	19	139	56



NEAR HITS WITH PEDESTRIAN

In this period there were 3,470 near hits with a pedestrian at a level crossing, an average of 434 per year. There were no incidents in the ACT.

	NSW	NT	QLD	SA	TAS	VIC	WA
2016	52	-	117	49	-	212	57
2017	47	-	81	68	5	208	62
2018	46	-	77	90	2	215	88
2019	37	-	68	95	-	217	79
2020	36	-	76	66	-	118	55
2021	31	-	81	74	3	119	36
2022	37	1	84	74	6	99	61
2023	29	-	130	127	1	113	41
TOTAL	315	1	714	643	17	1,301	479
AVERAGE	39	0	89	80	2	163	60



In addition, less than 1% in TAS and NT.

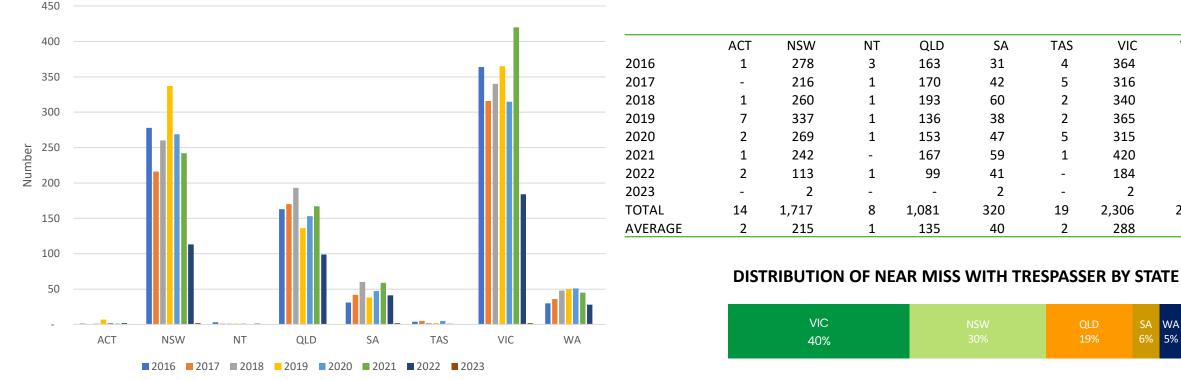
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Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of
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now only requires incidents to be reported where a collision has only been narrowly avoided by chance and there was a high chance of collision if circumstances were slightly different. This may result in a decrease of
incidents compared to previous years.

NEAR HITS WITH TRESPASSER ON THE AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

In this period there were 5,753 near hits with a trespasser, an average of 719 per year.



Incidents in ACT, NT and TAS combined is less than 1%

Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of
notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See <u>here</u> for information about notifiable occurrences. On 1/7/2022 the definition of Near Miss/Near Hit has changed and
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incidents compared to previous years.

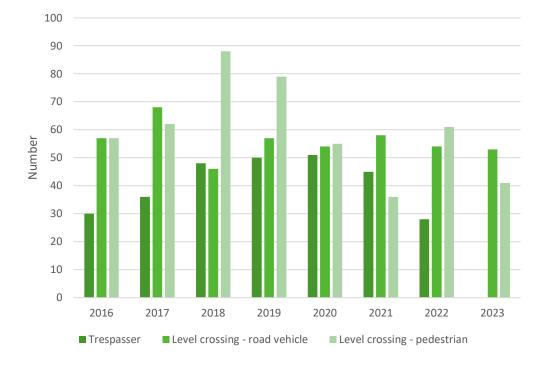
WA

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NEAR HITS AT LEVEL CROSSINGS AND WITH TRESPASSERS ON THE WESTERN AUSTRALIAN HEAVY RAIL NETWORK 2016-2023¹

In this period there were a total of 1,214 near hits, an average of 152 per year, 288 with trespassers, 447 at a level crossing with a road vehicle and 479 at a level crossing with pedestrians.



	Trespasser	Level crossing - road vehicle	Level crossing - pedestrian	Total
2016	30	57	57	144
2017	36	68	62	166
2018	48	46	88	182
2019	50	57	79	186
2020	51	54	55	160
2021	45	58	36	139
2022	28	54	61	143
2023	0	53	41	94
Total	288	447	479	1,214

Office of the National Rail Safety Regulator, Occurrence extract-fatalities, serious injuries, minor injuries, attempted suicide no consequence July 2015–December 2023. The requirements for operator reporting of notifiable occurrences are set out in the Reporting Requirements for Notifiable Occurrences. See <u>here</u> for information about notifiable occurrences. On 1/7/2022 the definition of Near Miss/Near Hit has changed and now only requires incidents to be reported where a collision has only been narrowly avoided by chance and there was a high chance of collision if circumstances were slightly different. This may result in a decrease of incidents compared to previous years.





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